

170' CREW/FSV HARLAN S McCALL



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MAIN PARTICULARS:

LENGTH OVERALL	166.42	ft	50.72	m
LIGHT DRAFT	6.50	ft	1.98	m
LENGTH BP	143.90	ft	43.86	m
LOADED DRAFT	10.00	ft	3.05	m
BEAM	30.00	ft	9.14	m
SUMMER FREEBOARD	5.67	ft	1.73	m
DEPTH	12.69	ft	3.87	m
LIGHTSHIP (ESTIMATED)	170.00	LT	172.73	Mt

CAPACITIES:

FRESH RIG WATER	43,300	USG	163.9	m ³
FUEL OIL	26,300	USG	99.6	m ³
DRY BULK (DECK TANKS)	2,000	ft ³	56.6	m ³
ENGINE LUBE OIL	680	USG	2.6	m ³
POTABLE WATER	1,400	USG	5.3	m ³
HYDRAULIC OIL	80	USG	0.3	m ³
BILGE OIL	125	USG	0.5	m ³
GEAR OIL	125	USG	0.5	m ⁴
DEADWEIGHT (ESTIMATED)	350	LT	355.6	Mt

CARGO DECK:

TONNAGE	275	Lt	279.4	Mt
STRENGTH	540	lb/ft ²	2.6	Mt/m ²
98.0	ft	29.9	m	WIDTH
24.5	ft	7.5	m	CLEAR AREA
2,450	ft ²	223.1	m ²	

TONNAGE:

	USA	INT
GRT	98 GRT	400 GT
NRT	67 NRT	120 NT

MACHINERY:

MAIN ENGINES	5 x Cummins KTA-38-M2
BRAKE HORSEPOWER	5 x 1350 = 6750 BHP @ 1950 RPM
REDUCTION GEARS	5 x Twin Disc MG-6650, 2.47:1
CONTROLLABLE SPEED PROPELLERS	4 blade Michigan 45"x47" Nibralt
PROPELLER SHAFTING	4.5" x 26" Stainless Steel"
RUDDERS	3 Independent x Stainless steel W/5" shaft
MAIN GENERATORS	2 x 290 kW, 480 VAC, 60 Hz, 3F"
MAIN GENERATOR DRIVES	2 x Cummins QSM11
AZIMUTH BOW THRUSTER	1 x Thrustmaster TH200RN
AZIMUTH BOW THRUSTER DRIVE	1 x Thrustmaster HPU
TUNNEL BOW THRUSTER	2 x Thrustmaster 30TT200
TUNNEL BOW THRUSTER DRIVE	1 x Cummins QSM-11
BULK COMPRESSOR	LEROI WE 150 SS
OILY WATER SEPARTOR	Village Marine OWS-2.2

PERFORMANCE:

MAXIMUM SPEED	26	knots
CRUISING SPEED	24	knots
ECONOMY SPEED	21	knots
MAXIMUM FUEL CONSUMPTION	325	GPH @ 1,950 RPM
CRUISING FUEL CONSUMPTION	250	GPH @ 1,800 RPM
ECONOMY FUEL CONSUMPTION	200	GPH @ 1,600 RPM

DISCHARGE RATES: GPM @ FT M3/HR @ M

DRILL WATER	800	200	182	61
FUEL OIL	350	240	79	73
DRY BULK	780 ft3/hr	80psi	22	6 bar

This specification is preliminary and subject to change without notice. Exact tank capacities, deadweight, deck cargo capacity and other figures that have been calculated and may change when the actual vessel is delivered.

DOCUMENTATION:

CLASS	ABS +A1 HSC Crewboat +AMS +DPS-2
FLAG	USA
USCG	Sub Chapter L & T Offshore Supply Vessel & Small Passenger Vessel Flammable/Combustible Cargo Allowed on Deck EEP Certified for 152 persons
DP CLASS	ABS DP2
IOPP / SOPEP	USCG
BUILT	2007
ROUTE	Oceans US GOM
TONNAGE	GL
OFFICIAL NUMBER -	1197514 RCS - WDD7531
ABS ID NUMBER	176290
IMO NUMBER	9450193

ACCOMMODATIONS: CABINS: 5 BERTHS: 7

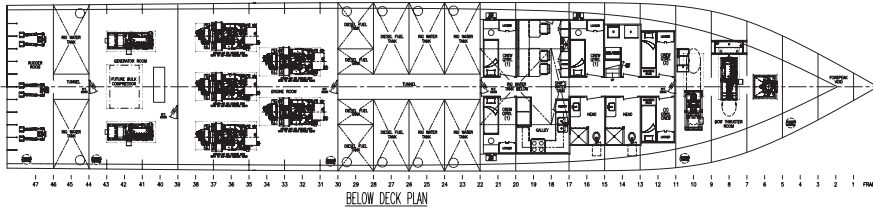
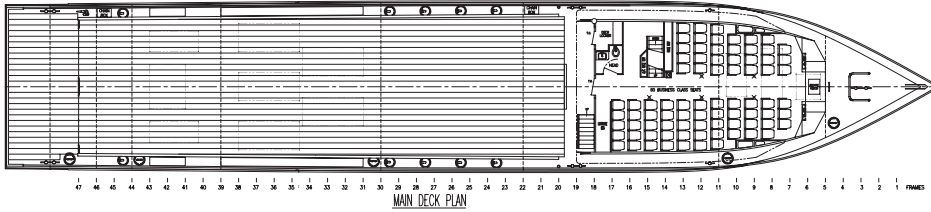
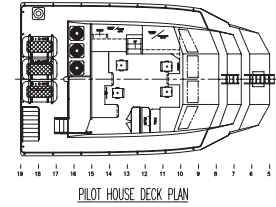
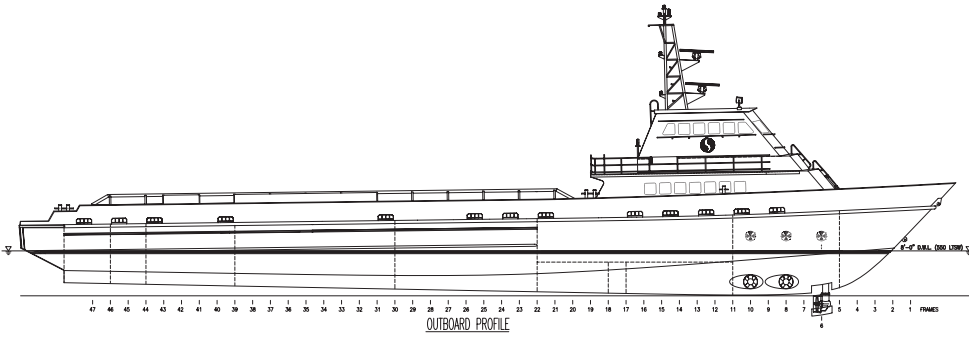
CREW	2 heads w/ shower
GALLEY	8 Main Mess: 8 25" TV w/ VCR/DVD w/ Direct TV" garbage disposal 2 x 19 cu ft refrigerator / freezer washer / dryer
PASSENGER AREA	80 BUSINESS CLASS SEATS W/ 1 HEAD 2 x 32" TV w/ Stereo Sound System & VCR/DVD w/ Direct TV Luggage Area
A/C & HEATING	(2) 5 ton, (1) 2 ton Central HVAC Units

ELECTRONICS & CONTROLS:

COMPASS	1 Magnetic, 2 Gyro
DEPTH RECORDER	1 - Datamarine 3001 & 1 - Furuno
ENGINE / GEAR CONTROLS	CSP Electric
EPIRB 406 MHZ	Northern Airbone Technology S-1210
GPS	Garmin GPSMAP 215
RADAR	2 x Furuno 8122
SSB	Icom ICM 710
STEERING	Furuno FS1570 GMDSS SSB Radio w/ DSC Receiver
AUTOPILOT	Electro-hydraulic w/ Independent Rudders
VHF	Com Nav 2001
INTERNAL TELEPHONE	1 x portable VHF & 3 x Icom M504
HAILER / PA SYSTEM	International Marine Sound Powered
DYNAMIC POSITIONING	Ratheon 430
NAVTEX	Simrad SDP10 / ABS Class DP2
INTERNET E-MAIL	Furuno NX 700
AIS	Globe Wireless
WEATHER RADIO	Furuno FA150
CHART PLOTTER	XM Coastal Explorer Navigation System

SPECIAL EQUIPMENT:

FIRE FIGHTING	Fixed CO2 System In All Machinery Spaces
FUEL BLENDER	Cummins 110V
LIFE RAFTS	8 - 12 man floats
RESCUE EQUIPMENT	Rescue Davit and Basket
FUEL METER	Fitted
SEARCHLIGHTS	3 - Carlise & Finch 15"
DISCHARGES	Bulk, Fuel, Water Piped to Stern of Vessel
RIDE CONTROL	MDI Interceptor System
FIRE DETECTION	Smoke and Heat Detection Per USCG / ABS
CCTV Monitor	Deck (recordable), Passenger rm., Engine rm Generator Room, Thruster Room
DECK LIGHTING	2 - 1500 Watt, 4 - 500 Watt, 2 - 250 Watt"
SEWAGE TREATMENT	Head Hunter System
ENGINE MONITORING	CSP Electronics
BOARDING RAMPS	Fitted
FIRE MONITOR	1 - stern mounted - 700 gpm monitor



KONGSBERG

DP Capability Plot GC 463

Case number: 1
Case description: All thrusters and rudders active
Thrusters active: T1-T8
Rudders active: R1-R2

Input file reference	Foot_2051-rvB.asp						
Last modified	2005-11-16 16:09 (v. 2.4.0)						
Length overall	50.7 m						
Length between perpendiculars	44.9 m						
Breadth	9.1 m						
Draught	2.4 m						
Displacement	508.0 t (Cb = 0.50)						
Longitudinal radius of inertia	11.2 m (= 0.25 * Lpp)						
Pos. of origin ahead of Lpp/2 (Xo)	0.0 m						
Wind load coefficients	Calculated (Blendermann)						
Current load coefficients	Calculated (Strip-theory)						
Wave-drift load coefficients	Database (Scaled by Breadth*Length)						
Tidal current direction offset	0.0 deg						
Wave direction offset	0.0 deg						
Wave spectrum type	JONSWAP (gamma = 3.30)						
Wind spectrum type	NO						
Current - wave-drift interaction	ON						
Load dynamics allowance	1.0 * STD of thrust demand						
Additional surge force	0.0 t						
Additional sway force	0.0 t						
Additional yawing moment	0.0 t*m						
Additional force direction	Fixed						
Density of salt water	1026.0 kg/m³						
Density of air	1.23 kg/m³						
Power limitations	OFF						
# Thruster	X [m]	Y [m]	Fx [t]	Fy [t]	Max [°]	Pe [kW]	Rudder
1	AZIMUTH	18.7	0.0	2.4	-1.4	100	149
2	TUNNEL	18.7	0.0	1.8	-1.8	100	149
3	TUNNEL	14.8	0.0	1.8	-1.8	100	149
4	PROP	-18.0	-1.5	6.0	-3.5	100	541
5	PROP	-16.0	1.5	6.0	-3.5	100	541
6	PROP_AS	-20.5	-2.7	6.0	-3.5	100	541 SPADE
7	PROP_AS	-20.5	2.7	6.0	-3.5	100	541 SPADE
8	AZIMUTH	-23.3	0.0	1.9	0.0	100	120

Limiting 1 hour mean wind speed in knots at 10 m above sea level

